

CLAIMS

1. A gas turbine combustor covered by a casing via an intake chamber, characterized in that

5 a sheet-like vibration damper, which resonates with the vibration of air in the intake chamber to absorb the energy of the air vibration, is attached to an inner wall of the casing by an attaching member with a space therebetween.

10 2. The gas turbine combustor according to claim 1, wherein the sheet-like vibration damper is made of a single-layered thin flat plate.

3. The gas turbine combustor according to claim 1, wherein the sheet-like vibration damper is made of a multi-layered thin flat plate.

15 4. The gas turbine combustor according to claim 2 or 3, wherein thin flat plates of different sizes are used.

20 5. The gas turbine combustor according to claim 1, wherein the attaching member is a stud which is composed of a bolt welded to the inner wall of the casing and two nuts which hold the thin plate therebetween, said nuts being engaged with the bolt and being thereafter welded thereto.

25 6. The gas turbine combustor according to claim 1, wherein the sheet-like vibration damper is made of a three-dimensional profile member which is shaped to define an inner space in which the attaching member is contained.

30 7. The gas turbine combustor according to claim 6, wherein the three-dimensional profile member is made of a single three-dimensional profile member having therein a single independent inner space, and a plurality of single three-dimensional profile members are attached to the inner wall of the casing.

35 8. The gas turbine combustor according to claim 7, wherein the single three-dimensional profile member is a box-like three-dimensional profile member having therein

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a closed space.

9. The gas turbine combustor according to claim 6,  
wherein the three-dimensional profile member is a  
continuous three-dimensional profile member having  
5 therein a plurality of independent spaces.

10. The gas turbine combustor according to claim 6,  
wherein the inner spaces of the three-dimensional profile  
member secured to the inner wall of the casing have  
different volumes.

10 11. The gas turbine combustor according to claim 1,  
wherein the sheet-like vibration damper is provided with  
a hole to connect spaces on opposite sides thereof.

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